

等的现在分词,我们就是这种的时候,我们就是这个时候的时候,这个时候就是这个时间,这个时候,这个时候,这个时候的时间,我们就是这种<mark>的时候,我们就是这种的时候,我们是这种的时候的</mark>

TOMASSI, W.; MIAZEK, M.

"Potentiometric investigation of the catalyst $Z_{n2}Fe(CN)+Cu^{**}+Fe...$ showing catalytic ion antagonism."

p. 446 (Przemysl Chemiczny) Vol. 12, no. 8, Aug. 1956 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

1. Others, w.

Category: Poland / Physical Chemistry - Kinetics. Combustion.

Explosives. Topochemistry. Catalysis.

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30061

Author : Tomassi W.

Inst : Warsaw Polytechnic Institute

HE SELVERY TRANSPORTED SERVES SERVES SERVES PROPERTY OF THE SERVES SERVES SERVES SERVES SERVES SERVES SERVES S

Title : Theoretical Foundations of the Action of Powder Electrodes and

the Possibilities of Their Utilization.

Orig Pub: Przem. chem., 1956, 12, No 9, 520-522

Abstract: Brief presentation of the results of the work conducted by the

Department of Physical Chemistry of the Warsaw Polytechnic Institute, on use of powder electrodes in the study of surface structure of dispersed bodies and investigations of genesis and pro-

perties of catalysts and adsorbents.

Card : 1/1

-27-

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TOMASSI, W.

"Tentative classification and definition of systems for chemical thermodynamics."

p. 307 (Roczniki Chemii) Vol. 30, no. 1, 1956 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

TOMASSI, W.; SWIERSZCZENSKA, O.

"Conditions of stabilization of the potential of a metallic electrode immersed in a solution of foreign ions."

p. 343 (Roczniki Chemii) Vol. 30, no. 1, 1956 Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

o rmosi, Hisli go, — — — — — — — — — — — — — — — — — — —	
Witeld Tomassi and Wladyslaw Lewicki: "Potentionstric Investitation of the Adsorption Isotherms, "Roccaiki Chemii, Vol 30, So 3, Warsaw, 1996. Published From the Chair of Physical Chemistry, Vannew Polytocheic, 23 Apr 50.	

FOM A.S.S / W.
POLAND/Physical Chemistry - Electrochemistry.

B-12

Abs Jour

: Referat Zhur - Khimiya, No 1, 1958, 559

Author

Witold Tomassi, Halina Wroblowa.

Inst

MI DOIG TOWNSON, MINERAL HER

Title

: Study of Copper Powder Electrodes. I. Determination of

Standard Potential.

Orig Pub

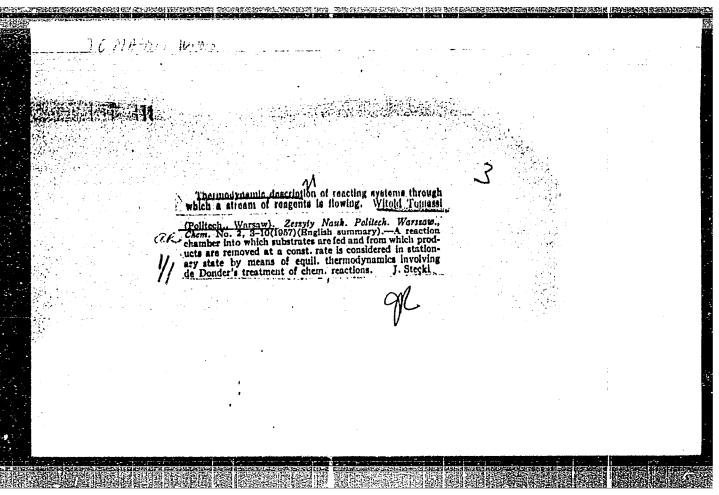
: Rcczn. chem., 1956, 30, No 3, 873-880

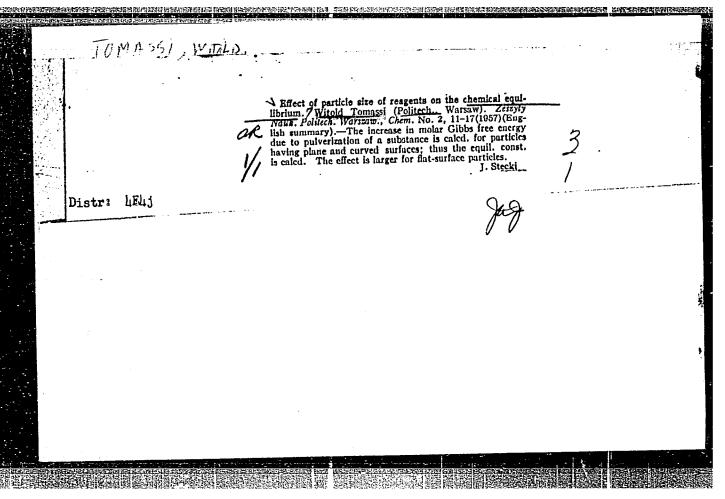
Abstract

: The emf of the element $\text{Cu/CuSO}_4/\text{Hg}_2\text{SO}_4$ was measured at nine concentrations of CuSO_4 at 25°. It was established that the diameter of the Cu powder grains does not influence the magnitude of the potential of the powder electrode (PE). The standard potential of PE (E_O = 0.3402 v) was determined, which agreed well with corresponding bibliogra-

phical data for smooth Cu electrodes.

Card 1/1





Tomassi, Witold

POLAND/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria.

Physical-Chemical Analysis, Phase Transitions.

8-1

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3758.

Author : Witold Tomessi.

Inst : Warsaw Polytechnic Institute.

Title : Thermodynamic Discussion of Influence of Reagent Crushing on

Chemical Equilibrium State of System.

Orig Pub: Zesz. nauk. Politechn. warz., 1957, No 30, 3-17.

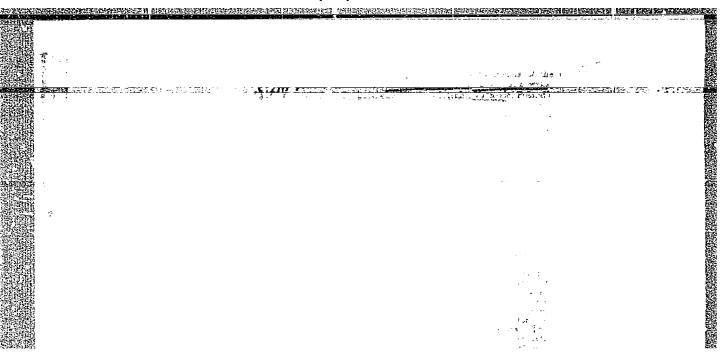
Abstract: It was proved that the reagent crushing influences the equilibrium constant of a reaction to a considerable degree. The

grinding of reacting substances produces an action, which is opposite to what takes place, if the reaction product was crushed. Crushing into particles with flat sides has a greater

effect than crushing into particles with curved surface.

Card : 1/1

-8-



TOMASSI, W.

International Committee of Electrochemical Thermodynamics and Kinetics.

p. 411 (Wiadomosci Chemiczne) Vol. 11, no! 7, July 1957, Wroclaw, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

TOMASSI W.

TOMASSI, W.

Activities of the Cebelcor (Belgium Center of Studies of Corrosion).

p. 412 (Wiadomosci Chemiczne) Vol. 11, no. 7, July, 1957, Wroclaw, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (REAI) LC, VOL. 7, NO. 1, JAN. 1958

TOMASSI, W.

POLAND/Physical Chemistry - Flectrochemistry.

B-12

Abs. Jour

: Ref Zhur - Khimiya, No 8, 1958, 24299

Author

: Tomassi, W., Wrobel, H.

Inst Title : Investigation of Copper Powder Electrodes. II. Different Copper Preparations as Materials for Electrodes of First

Kind and for Compound Electrodes.

Orig Pub

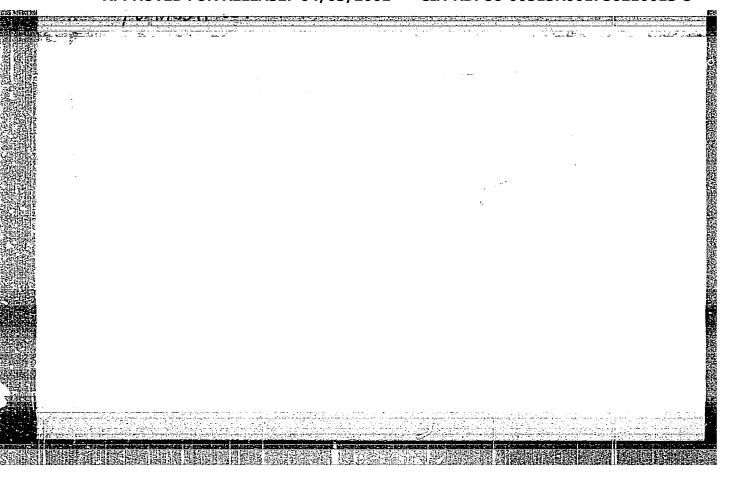
: Przem. chem., 1957, 13, No 4, 207-211

Abstract

: Determinations were made of c.m.f. of Cu (powder) | MSO₁₄ | Hg₂SO₁₆ | Hg cells with CuSO₁₆ and K₂SO₁₆ electrolytes; as powder electrode (PE) were utilized copper preparations (CP) produced in different manners. It was found that Raney CP, powders produced by reduction of different compounds of Cu, and also by calcining, at different temperatures, electrolytic Cu, exhibit different potentiometric properties. Differences in values of potentials E of individual CP are small in the case of CuSO₁₆ and much

Card 1/2

4



POLAND/Physical Chemistry. Electrochemistry.

В

Abs Jour: Ref Zhur-Khim., No 15, 1958, 49714.

Author : Tomassi W.

Inst

Title : Composite Powder Electrodes.

Orig Pub: Przem. chem., 1957, 13, No 9, 500-503.

Abstract: In continuing the study of properties of powder

electrodes (PE) (RZhKhim, 1956, 3511, 57569, 57639) it was found that the use of PE for the purpose of studying the surface state of pulverulent substances by means of potentiometric measurements requires a number of conditions. The best offtake electrode is Pt. As solvents should be used C2H5OH or CH3OH (in studying non-

Card : 1/2

35

ROLAND/Physical Chemistry. Surface Phenomena, Adsorption. Chromatography. Ion Exchange.

В

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Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73461.

Author: W. Tomassi, H. Jankowska, M. Prokopowicz.

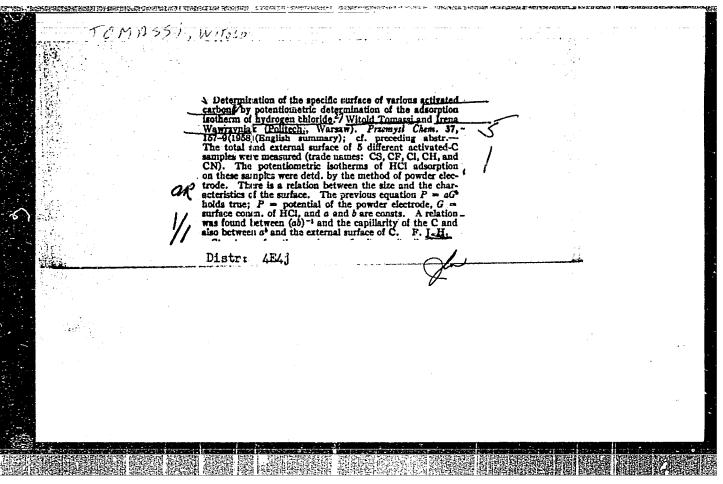
Inst Title

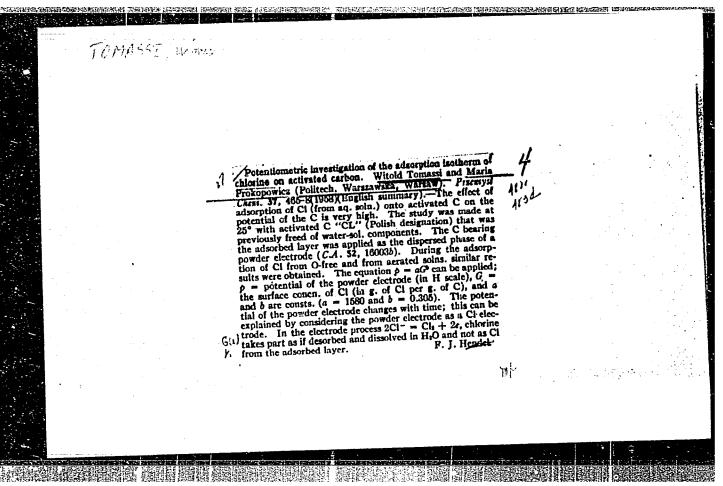
: Study of Adsorbents and Adsorption Isotherms
Using Powder Electrodes.

Orig Pub: Przem. chem., 1957, 13, No 12, 683-688.

Abstract: The application of the method of powder electrodes (RZhKhim, 1956, 57569, 57639; 1957, 47585, 76764) to the study of adsorbent (activated carbon and silica gel) properties and to the determination of adsorption isotherms of various substances gave good results. At that occasion, it was attempted to clear the mechanism of pro-

Card : 1/2





性,我们是这种,我们是一个人的,我们是一个人的,我们是一个人的人的,我们就是一个人的人的人的人,我们就会没有一个人的人的人,我们就会没有一个人的人的人,我们就会

Temassi, W.

POLAND/Chemical Technology. Chemical Products and Their Applications. Part 2. - Electrochemical Industries. Electroplating. Chemical Sources of Electric Current.

Abs Jour: Ref. Zhurnal Khimiya, No 21, 1958, 71432.

Author ; Witold Tomassi, Andrzej Houwalt.

Inst

Title : Test of Chlorine-Silver Powder Electrodes.

Orig Pub: Przem. chem., 1958, 37, No 2, 77-83.

Abstract: The tested powder electrodes (PE) containing metallic Ag and AgCl differed one from another by the size of Ag grains and methods of preparation. In some cases, Ag powder was substituted with Ag wire, which served simultaneously as a lead-out electrode. PE-s with Ag wire and coarse grained

Card : 1/2

Tomassi, W.; Wawrzyniak, I.

An attempt to characterize the surfaces of various carbon preparations by the potentiometric determination of the adsorption isotherm of hydrogen chloride. p. 157.

PRZEMYSL CHEMICZNY. (Ministerstwo Przemyslu Chemicznego i Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Przemyslu Chemicznego) Warszawa, Poland. Vol. 37, no. 3, Mar. 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1969.
Uncl.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210013-5"

POLAND / Physical Chemistry -- Surface phenomena.

B-15

Adsorption. Chromatography.

Ion Exchange.

Abs Jour

: Referat Zhur--Khimiya, No. 11, 1959, 38031

Author

: Tomassi, W.; and Prokopowicz, M.

Inst Title : Not given : The Potentiometric Study of the Isotherms for

the Adsorption of Chlorine on Activated Charcoal.

Orig Pub

: Przemyal Chem, 37, No. 7, 465-468 (1958) (in Polish with English and Russian summaries)

Abstract

: The authors have made a potentiometric study of the isotherm (I) for the adsorption of Cl on activated CL charcoal which has been purified from all water-soluble components. The charcoal with its adsorbed film forms the disperse phase of a powder electrode sic. The authors have

Card 1/3

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POLAND / Physical Chemistry -- Surface phenomena. Adsorption. Chromatography.

B-13

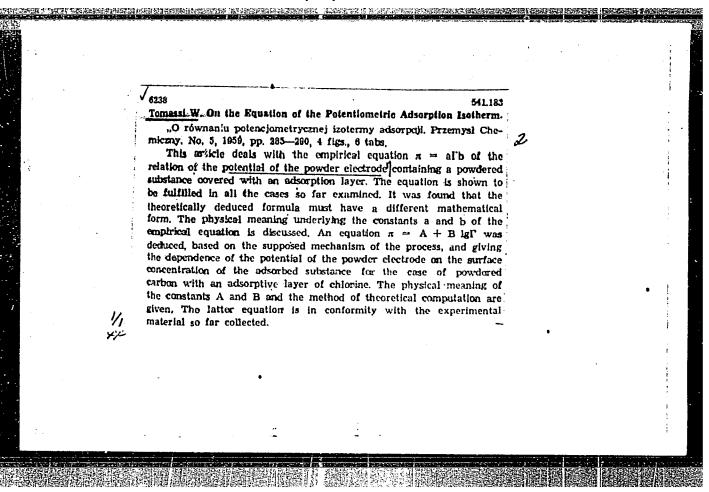
Ion Exchange.

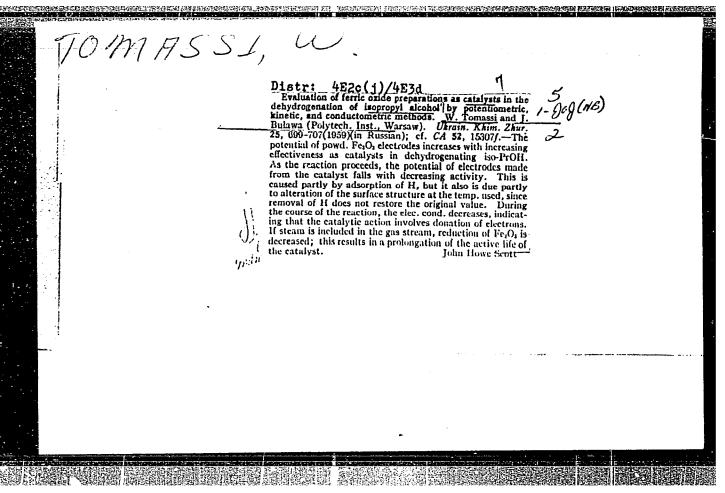
Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 38031

> sults can be interpreted if the powder electrode (studied in 0.5 M aqueous KCl solution) is treated as a chlorine electrode. The atomic chlorine behaves in the electrode process taking place at the surface of the charcoal (201 = Cl2 + 2e) as if it had desorbed and were dissolved in the aqueous phase. -- M. Lipets

Card 3/3

47





B-13 COUNTRY : Foland CATEGORY 1959, No. 85531 ASE. JOUR. : REKham., No. : Tomossi, W. AORD EA : Potentiometric Investigation of adsorption 11 3E. TIPLE Layers at Comminuted Coal. ones. Pub. : Przem. chem., 1959, 38, No 2, 76-78 : Description of use of the method of powder electrodes (FE) (RZhKhlm, 1956, No 18, 57569) in the study of adsorption layers. A new variant of PL is described. Experimental data are presented which characterize the adsorption of CH₃COOH, Cl₂, HCl₄, and NH₃ from gaseous and liquid phase at 7 samples of coal. At moderate values of surface tension 6, PE potential is V = a6b, where a and b are constants, the magnitude of which, according to the author, is closely correlated with structure and mechanism of process taking clace in PE at solid phase-solution inter coe. Correlation is shown between magnitude of a and b, and specific surface S determined by flow method; and a JARD: 1/2 36

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210013-5"

Gountry : Poland B-13

Catogory= : Surface Phenomena. Adsorption.
Chromatography. Ion Exchange.

Abs. Jour.: Ref Zhur - Khimiya, No 6, 1959

Author : Tomassi, W.; Wawrzyniak, I.

Institut. : An Attempt to Determine Surface Characteristics of Different Charcoal Preparations by Potentio-

metric Determination of HCl Adsorption Isotherm.

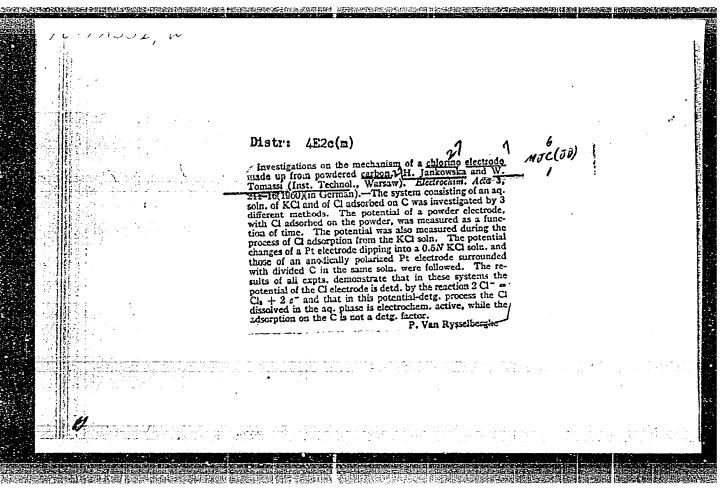
Orig. Pub.: Przem. chem., 1959, 37, No 3, 157-159

Abstract: The method of powder electrodes (PE) was used to determine isotherms of adsorption (A) of HCl at five different specimens of activated and unactivated charcoal (C) including also carbon electrodes for spectral analysis. The potential of PE depends on amount of adsorbed substance. This correlation is expressed by equation V = aGD, where V is potential of PE, G-- surface concentration of HCl, a and b are constants. Total surface (S(tot)) of C under study was determined by HET method, and their external surface (S(ext)) -- by the method described by Kamack (RZhKhim, 1956, 62025). A correlation was found between (ab)-1 and the ratio

Card: 1/2

B-21

Country : Poland Category : Surface Phenomena. Adsorption. B-13 Chromatography. Ion inchange. Abs. Jour. : Ref Zhur-Khimiya, No 6, 1959 18698 Author Institut. Title Orig Pub. : Abstract : S(tot)/S(ext), which characterizes the "capillarity"of C, and also between ab and S(ext). On the basis of an interpretation, proposed by the authors, of processes occuring in PE comprising C having an adsorption layer (AL), the authors designate (ab)-1 as index of stability of A, and consider ab a yardstick of potentiometric effect induced by the presence of adsorption layer and depending primarily on description rate. This effect increases with increases description rate. This effect increases with increase of S(ext). The possibility is pointed out of an approximate evaluation of specific surface of C powders solely on the basis of potentiometric determinations .-- Ya. Satunovskiy. 0ard: 2,2



TOMASSI, Witold; DUS, Ryszard

An attempt to apply the powder electrode to investigations of the course of chemical reactions on a contact. Przem chem 39 no.1:13-16 Ja '60.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa

TOMASSI, Witold; JANKCWSKA, Helena; WOJTOWICZ, Jan; MILEK, Ryszard

Studies on the reduction of the potentials of electrodes and of the voltage of electrolysis. Przem chem 39 no.3:160 Mr 160.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa

TOMASSI, Witold; KDMOROWSKA, Janina

Electrodeposition of zinc under considerably reduced voltage. Przem chem 39 no.5:251-253 My '60.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa

TOMASSI Witold; JANKOWSKA, Helena; LUTZE-BIRK, Andrzej

Studies on the properties of platinum powder electrodes in the system CL2-CL- H20. Przem chem 39 no.7:418-421 Jl '60.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa

TOMASSI, Witold; ZIELEMIEWSKI, Wojciech

On the electrolytic decomposition of water under very low voltage with the application of powder electrodes. Frzem chem 39 no.7:421-423 J1 160.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa

TOMASSI, Witold; JANKOWSKA, Helena

Studies on the properties of powder electrodes in the system CL2-CL-H2O. Przem chem 39 no.3:496-502 Ag 16O.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa

TOMASSI, Witold; KOCOT-BONCZAKOWA, Donata

Utilization of the adsorption process in the work of a galvanic cell. Przem chem 40 no.7:372-374 Jl *61.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa.

12th Conference of the International Committee of Thermodynamics
and Electrochemical Kinetics, Przem chem 40 no.7:404 Jl 161.

2747.6

P/014/61/040/008/001/008 D233/D305

26./6/0 AUTHORS:

Tomassi, Witold, Jankowska, Helena, and Mroz, Wacław

TITLE:

The use of various activated carbon preparation in oxygen and chlorine electrodes

PERIODICAL: Przemysł chemiczny, v. 40, no. 8, 1961, 427 - 428

TEXT: The combination of gaseous with powder electrodes was investigated to throw some light on the properties of fuel cells. A previous study of the chlorine electrode in conjunction with powdered carbon and pt electrodes showed that the established potential of a powder electrode in the system Cl_2 - Cl^- - H_2O was al-

ways lower than that of an ordinary chlorine electrode. Similar results were obtained by western authors. In general, Cl_2 and O_2 which form anions in the electrode reaction give a negative deviation on a powder electrode, while a positive deviation was obtained with cation forming hydrogen (unpublished work). These phenometers

Card 1/4

ETUS6

The use of various activated ...

P/014/61/040/008/001/008 D233/D305

mena have been utilized by the authors to construct adsorption electrodes, to determine the behavior of 5 Polish activated carbons and of powdered, spectroscopic graphite, in chlorine and oxygen electrodes. The effects of particle size and of leaching the powders with boiling water, boiling ethanol and boiler water again, were investigated. The following reagents were used: once-distilled water, analytically pure KOH and KCL, produced by Chemapol (Prague) and POCh (Gliwice), respectively. Cl₂ was made from pure KM₁O₄ (POCL) and pure HCl, and was then passed through saturated aq. KMnO₄ and over crystalline CusO₄ · 5H₂O. Bottled O₂ was purified by bubbling through 25 % KOH. Measurements on the powder electrode in the system O₂ - OH H₂O were carried out at 18-20°C, using the apparatus described by W. Tomassi and D. Kocct-Bonczakowa (Ref. 6: Przem. Chem. 40, 372, 1961). Powdered C was held in a glass vessel with perforated walls; suspended in a 25 % KOH solution saturated with O₂. Contact with the solution was maintained through

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27.75

The use of various activated ...

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a Pt wire. Another electrode, consisting of a Pt wire and a calomel electrode were also included. Using a Ridan potentiometer, the potential of the oxygen electrode was measured against a saturated calomel electrode. Potentials of the powder electrodes which stabilized after 3-6 dyas, were 0.418 - 0.471 v. lower (on the hydrogen scale) than the potential of the reversible electrode in the case of the activated carbons and 0.252 v lower in the case of graphite. Behavior of the 5 carbon preparations was thought to be essential non-distinctive. The system powdered 6 - chlorine electrode was studied in the same manner, in a Hoppler thermostat, at 25.0 ± 0.10C. The potentials stabilized over 3-4 days. Greater variations in the powder behavior were found in this case: the lowering was only 0.028V for graphite and 0.296-0.463v for the activated carbons. It is thought that the potentials measured correspond to stationary not equilibrium, states. In the case of the chiorine electrode, the deviations tend to decrease with increased particle size of the carbons and to increase for the unleached powders. No effect of the surface area of the powders on the potential was ob-

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27.5%

The use of various activated ...

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served. Furthermore, the deviations tended to increase in the same order as the potentials of the corresponding powder electrodes (in 0.5 N aq. KCl) were decreased. In cells composed of an oxygen of chlorine powder electrode and a hydrogen electrode, considerable tendencies towards polarization were noted in the case of the H2 and 02 electrodes. This is ascribed to the greater molecular dissociation energies of these elements. There are 3 tables and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Katedra chemii fizycznej, Politechnika Warszawska (Warsaw Polytechnic, Department of Physical Chemistry)

Card 4/4

TOMASSI, Witold; KOMOROWSKA, Janina

Electrolytic isolation of copper under considerable reduced voltage. Przem chem 40 no.9:499-500 S '61.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210013-5"

TOMASSI, Witold; WOJTOWICZ, Jan

Studies on the application of an activated carbon anode in the electrolysis of sodium chloride solutions. I. The potential of the powder anode during the electrolysis. Przem chem 40 no.10:556-560 0 161.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa.

TOMASSI, Witold; JANKOWSKA, Helena

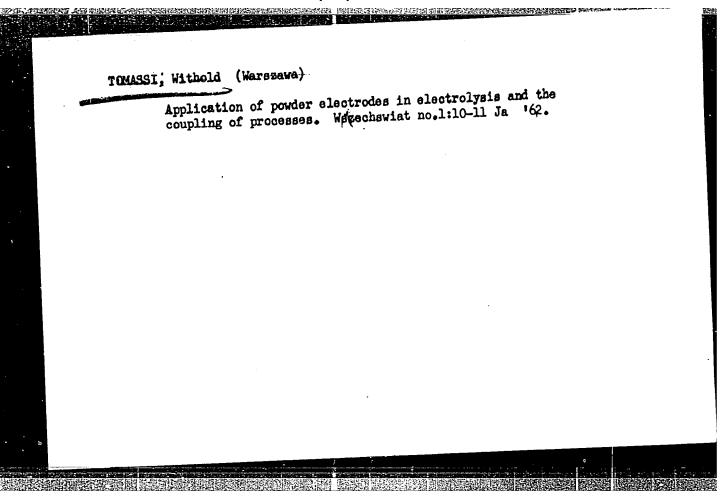
On the electrochemical obtaining of chlorine and copper by applying powder electrodes. I. Electrolysis of hydrochloric acid. Przem chem 40 no.11:624-626 N '61.

1. Katedra Chemii Fizycznej, Politechnika Warszawa.

TOMASSI, Witold; JANKOWSKA, Hellina

On the electrochemical preparation of chlorine and copper with the use of powder electrodes. Pt.2. The obtaining of copper. Przem chem 40 no.12:679-680 D ¹61.

1. Katedra Chemii Fizycanej, Politechnika, Warszawa.



CIA-RDP86-00513R001756210013-5 "APPROVED FOR RELEASE: 04/03/2001

TOMASSI, Witold

On the mechanism of the chlorine electrode process on carbon and platinum powders. Pt. 1. Compilation of experimental data and the thermodynamic model. Przem chem 41 no.2:62-63 F '62.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa

CIA-RDP86-00513R001756210013-5" APPROVED FOR RELEASE: 04/03/2001

TOMASSI, Witold

Deliberations on the mechanism of the electrode process of the chlorine electrode on carbon and platimum powders. Pt. 1. Compilation of experimental data and the thermodynamic model. Przem chem 41 no.2:62-64 F '62.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210013-5"

TOMASSI, Witold

Notes on the mechanism of the electrode process of the chlorine electrode on carbon and platinum powders. II. Mechanism of the electrode process. Przem chem 41 no.3:126-128 Mr 162.

1. Katedra Chemii Fizycznej Politechniki Warszawskiej

TOMASSI, Witold; JANKOWSKA, Helena; CHELSTOWSKA, Teresa

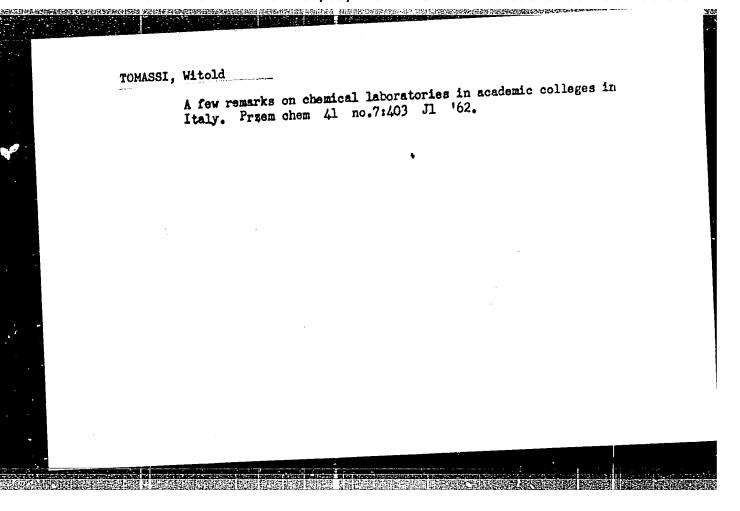
On the electrochemical obtaining of chlorine and copper with the use of powder electrodes. Pt. 3. Coupling the process of obtaining copper with the process of obtaining chlorine. Prwem chem 41 no.4:183-185 Ap '62.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa.

TOMASSI, Witold; JODZEWICZ, Wanda

Studies on the application of the powder cathode with activated carbon in the process of electrolysis of aqueous solution of sodium chloride. I. Preliminary measurements. Preem chem 41 no.6:297-300 Je '62.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa.



TOMASSI, Witold; PIETRZYK, Stanislaw

On the electrochomic production of porous electrodes for the construction of elements. (Preliminary note)

1. Katedra Chemii Fizycznej, Politechnika, Warszawa.

TOMASSI, Witold; JANIKOWNA, Maria

Halogen electrodes on carbon and platimum powders. Przem chem 41 no.8:449-451 Ag '62.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa.

P/014/62/041/011/001/002 D204/D307

JUTHOR:

Tomassi, Mitold

TITLE:

An electrochemical method of determining the adsorp-

tive characteristics of porous electrodes

PERIODICAL:

Przemysł Chemiczny, v. 41, no. 11, 1962, 634-636

TENT: A description is given of a simple method based on a thermodynamic model proposed by the author (Przem. Chem., 41, 62 (1962)), which allows an assessment of the adsorption capacity of the electrode material, energy characteristics and statistics of the active centers. Preparation of the powdered electrode material is discussed on the basis of the earlier work quoted above. The method consists of the evolution, at a constant, low current density (10 ma to 50 μ a per g), of the product of electrolysis (e.g. halogens, H₂, O₂) at the powder or porous electrode, where it is adsorbed. The electrode, which must be in equilibrium with the solution, is formed from powder around a central Pt or C rod. The resulting potential-time curves ('sedimentation curves', such as e.g. Fig. 1

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P/014/62/041/011/001/002 D204/D307

STATE OF THE STATE

An electrochemical method ...

for Cl_2) are plotted. For any time τ_0 the electrode potential is given by section $\tau_0\text{II}$, which is INI (say $\Delta\pi$ volts) below the evolution potential of gaseous chlorine (B3', i.e. section $\tau_0\text{NI}$), so that $2\text{F}\cdot\Delta\pi=\Delta G$, the difference between the molar thermodynamic potentials of free gaseous Cl_2 at 1 atm and chlorine adsorbed on the electrode. Every point on the curve thus corresponds to the mean thermodynamic potential of the adsorbed species, the amount of which is theoretically calculable from the (Imown) current efficiency of the process concerned. The gentler the slope of the sedimentation curve the greater the number of active centers possessing thermodynamically similar characteristics. Buch properties may thus be compared by comparing curves obtained for the sedimentation of various species on the same electrode material, or for the sedimentation of the same species on different materials. Refinements of the method are described and examples are quoted. There are 3 figures.

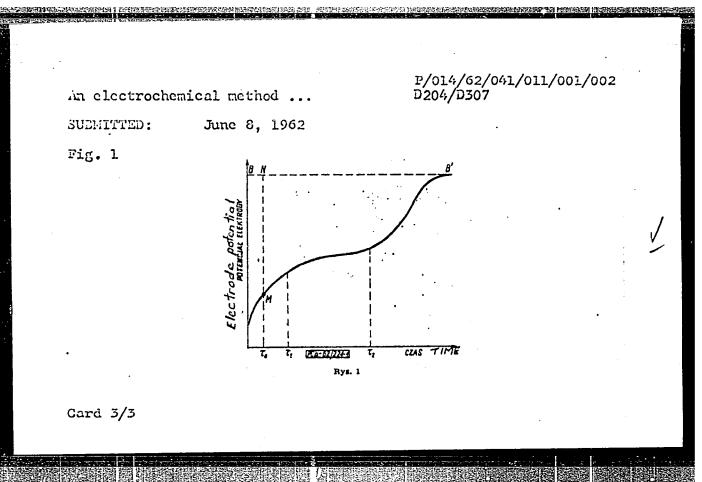
ASSOCIATION:

Katedra Chemii Fizycznej Politechniki Warszawskiej (Department of Physical Chemistry, Warsaw Polytech-

nical Institute)

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210013-5"



TOMASSI, Witold; REWAJ, Maria

Studies on the electrolysis of cupric chloride CuCl₂ by using the powder anode. Przem chem 41 no.11:636 N 162.

1. Katedra Chemii Fizycznej, Politechnika, Warszawa, i Katedra Chemii Fizycznej, Politechnika, Szczecin.

P/014/62/041/012/004/005 D204/D307

AUTHORS:

Tomassi, Witold, Jankowska, Helena and Zbudniewek,

-Wanda

TITLE:

The coupling of adsorptive and chemical processes

PERIODICAL:

Przemsy) Chemiczny, v. 41, no. 12, 1962, 690-692

TEXT: The aim of the present work, which is a development of an earlier study (Przem. Chem., 41, 62 (1962)), was to investigate the changes in thermodynamic functions caused by adsorption. The attention was focussed on the reactions: (1) $2\text{AgCl}(s) + \text{H}_2(g) = 2\text{Ag}(s) + 2\text{HCl}(g,aq.)$; (2) $\text{Hg}_2\text{Cl}_2(s) + \text{H}_2(g) = \text{Hg}(c) + 2\text{HCl}(g,aq)$; (3) $2\text{Ag}(s) + \text{Cl}_2(g) = 2\text{AgCl}(s)$; (4) $2\text{Hg}(c) + \text{Cl}_2(g) = \text{Hg}_2\text{Cl}_2(s)$; and (5) $\text{Cl}_2(g) + \text{H}_2(g) = 2\text{HCl}(g,aq)$ and it was attempted to reverse these reactions by means of adsorption. The adsorbents used were activated carbons CH and CRa, and spectroscopic purity powdered graphite CS; the size fractions were 0.06 to 0.25 mm. The reactions were carried out electrochemically, at $18 \pm 2^{9}\text{C}$. (1) In a cell consisting of an Ag wire (cathode) immersed in 1N HCl and a powder C Card 1/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210013-5"

P/014/62/041/012/004/005 D204/D307

The coupling of ...

(anode) with a Pt lead, AgCl was spontaneously deposited on the Ag. No such reaction proceeded in the absence of carbon. It is calculated that adsorption on C lowers the standard molar thermodynamic potential of H₂ by ~ 30 kcal/mole. Reactions (3) and (4) could not be reversed, although this would be possible with stronger adsorbents. Reaction (2) was reversed by using the cell: Hg (cathode) IN HCl| powdered C (anode). To reverse reaction (5), 2 kinds of adsorbents had to be used (a and b) which adsorbed (a) H₂ strongly, Cl₂ weakly, and (b) H₂ weakly and Cl₂ strongly. The system selected was: powdered CH electrode (anode) | IN HCl (aq) | powdered CRa electrode (cathode). It is thus possible to induce chemical reactions under physical conditions at which they would not ordinarily proceed spontaneously, by choosing suitable adsorbents. Reversed reactions (1) and (2) may readily be utilized for the preparation of AgCl and calomel electrodes. Reversal of (5) may prove even more useful, since adsorbed chlorine is a convenient chlorinating agent (leaving the C which may then be re-used), while H₂ may be simply desorbed from the other carbon by exposure to air over 24 hours.

ASSOCIATION: Katedra Chemii Fizycznej Politechniki Warszawskiej

Card 2/3

The coupling of ...

(Department of Physical Chemistry, Warsaw Polytechnic Institute)

SUBMITTED: July 7, 1962

P/014/63/042/001/003/004 D204/D307

AUTHORS:

Tomassi, Witold and Kocot-Bonczakowa, Donata

TITLE:

The influence of covering the surface of a carbon with molecules of an inert substance on the potential of a chlorine electrode formed on the powder of this carbon

PERIODICAL:

Frzemys/ Chemiczny, v. 42, no. 1, 1963, 23-26

TEXT:

The present work, which is a continuation of a series of earlier studies with the powder electrode, was aimed at determining the changes in the static potential, consequent upon changes in the energetics of the adsorption of chlorine on the carbon. The potentials were measured at 25 ± 0.5°C, in 0.5 H KCl or 0.5 H HCl, using a powder electrode (prepared from carbon covered with Cl₂CCOOH, chloral, CCl₄, C₂Cl₅, starch and saccharose) and a with Cl₂CCOOH, chloral, CCl₄, C₂Cl₅, starch and saccharose) and a solid Pt electrode. Activated carbon CD was employed for the powder solid Pt electrode. The highly chlorinated adsorbents led to an increase in electrode. The highly chlorinated adsorbents led to an increase in the potential, while the carbohydrates reduced it (w.r.t. the value

Card 1/2

The influence of covering ...

P/014/63/042/001/003/004 P204/D307

obtained on untreated carbon). These results were complemented by tests with anthracite powder, which was formed into electrodes before and after purification. Considerably higher potentials were observed on the purified material. It is concluded that adsorption of large molecules on the powdered carbon hinders the adsorption of chlorine, whilst the presence of highly chlorinated compounds on the surface facilitates the adsorption by providing active centers. There are 4 figures.

ASSOCIATION:

Katedra Chemii Fizycznej Politechniki Warszawskiej (Department of Physical Chemistry, Warsaw Polytechnic Institute)

Submitted:

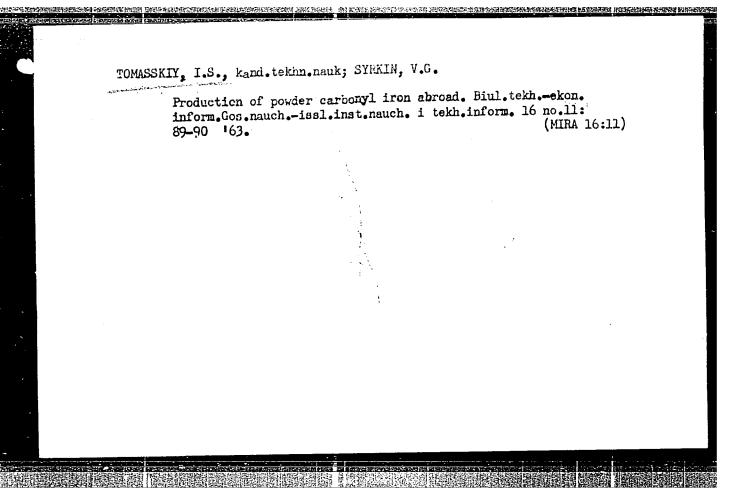
July 24, 1962

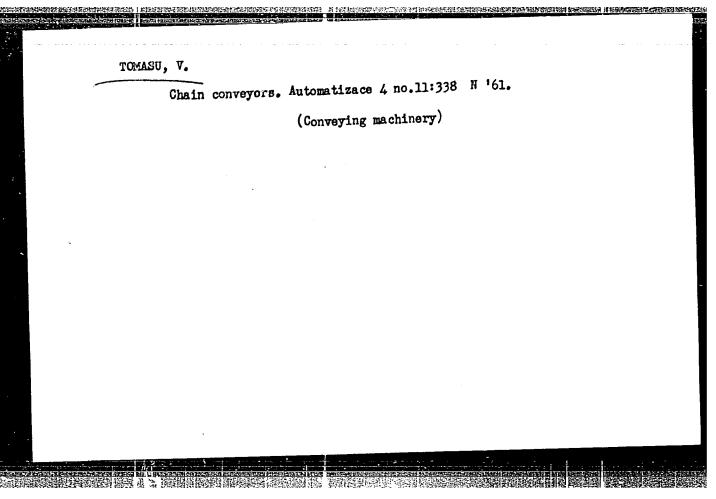
Card 2/2

TOMASSI, Witold; PIETRZYK, Stanislaw; CHELSTOWSKA, Teresa

Studies on the use of the deposition curves method for characterizing porous electrode materials. Pt. 2. Przem chem 43 no. 2: 69-70 F 164.

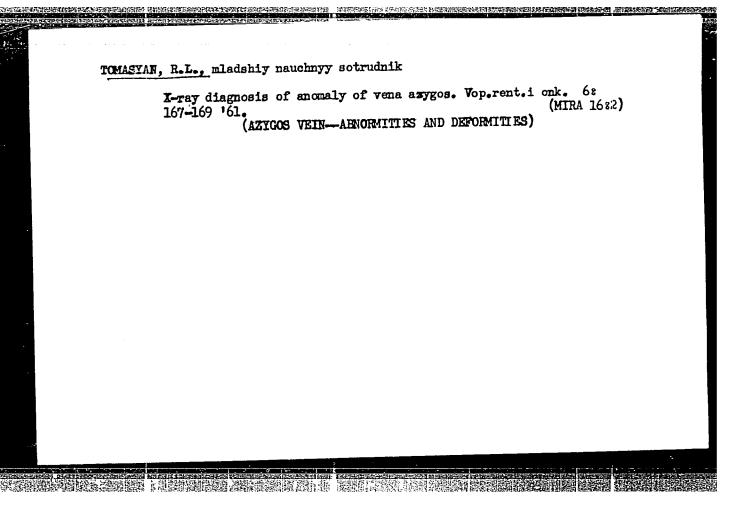
1. Katedra Chemii Fizycznej, Politechnika, Warszawa.





:	TOMASU, Viktor
	Electromagnetic vibration bunkers. Automatizace 4 no.12:366 D '61.
·	1. OTS, Koyotechna.
	(Vibrators)
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TOMASYAT	I, R.L.,	mladshiy nauchnyy sotrudnik
Paragram	Case of	patent ductus arteriosus. Vop.rent.i onk. 6:163-166 (MIRA 16:2) (DUCTUS ARTERIOSUS) (BLOOD-CIRCULATION, DISORDERS OF)
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TOMASZ, Stanislaw, mgr inz., st. asystemt

Axial fans with nonprofiled blades. Przegl mech 24 nc.9:269271 10 My '65.

1. Department of Thermodynamics and Power Engineering of the School of Mining and Metallurgy, Krakow.

ACC NR: AP6032603 SOURCE CODE: PO/0032/66/013/003/0393/0400

AUTHOR: Tomasz, Stanislaw (Warsaw)

ORG: none

TITLE: Establishment of the optimum geometrical parameters of a diffuser of a highpressure axial fan with straight blades

SOURCE: Archiwum budowy maszyn, v. 13, no. 3, 1966, 393-400

TOPIC TAGS: axial fan, diffuser, fan, diffuser design

ABSTRACT: A conical diffuser was selected experimentally for a high-pressure axial fan with straight blades. Nine different diffusers were tested. The diffuser with m=2.2 and $\vartheta=9^\circ$ (m is the ratio of the exit and inlet cross-section areas; ϑ : is the divergence angle) proved to be the most useful in the case of non-uniform velocity distribution along the radius at the outlet of the fan. The highest efficiency of the fan was reached for m=2.2 and $\vartheta=12^\circ$. The problem of the limiting blade setting angle is discussed as a function of the diffuser divergence angle. Orig. art. has: 8 figures.

SUB CODE: /3, 20,2 SUBM DATE: Mar65/ ORIG REF: 002/ OTH REF: 002/

Card 1/1

MORECKI, A., doc., dr., inz.; STAHL, J., mgr., inz.; TOMASZCZYK, T., mgr., inz.

Thermometric measurements of angular velocity. Formary 7 no.10:403-404
0 '61.

(Physical measurements)

FODOR, Gabor, akademikus; MCHACSI, Tivadar; TOMASZ, Jeno

Present state of the chemistry of nucleotides. Kem tud kozl MTA 19 no.2:163-179 '63.

1. Magyar Tudomanyos Akademia Sztereokemiai Kutato Csoportja, Budapest. 2. "A Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyansk Koslemenyei" szerkeszto bizottsagi tagja (for Fodor).

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	Tons	Wilhelms, K. Kormendy 187 (L. Eôtvôs Univ., B 187 Letters 1990, No. 1, 5-6, 1904, Other 1990, No. 1, 5-6 1904, CHO); according to 2731b)] refluxed 48 hrs. with 18 gare 21-3 g. pentacene	udapest, Hung.). Telra- .—Pentacene-8,13-quinone rom cyclohexane-1,4-dione Ried and Anthofer (CA	7 809(NB)	
	₽ It wa	s assumed that similar redu	of quinone or diquinones ressfully employed for the	,	

ERUCKNER, Viktor (Qyozo), prof. (Budapest); KARCZAG (Wilhelms), Adrienne (Budapest); KORMENDY, Karoly (Budapest); MESZAROS, Miomir (Budapest); TOMASZ, Jeno (Budapest)

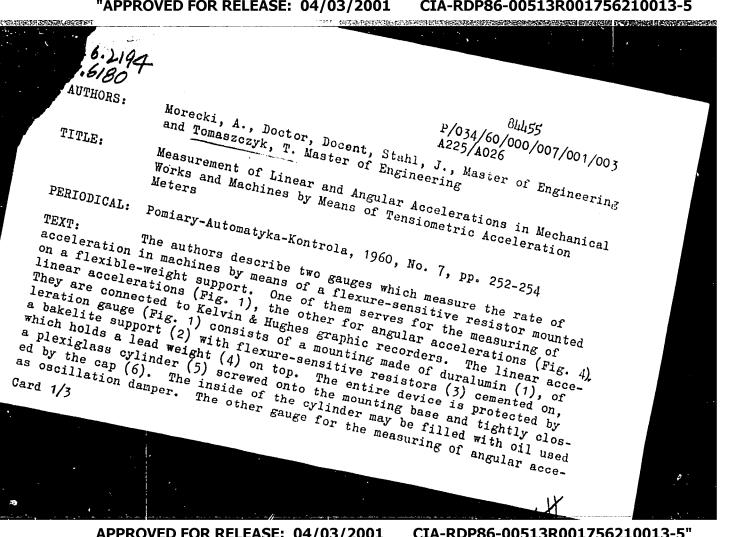
A simple and productive synthesis of pentacene. Acta chimica Hung 22 (EEAI 10:2)

1. Institute of Organic Chemistry, Lorand Ectvos University, Budapest. (Pentacene)

TOMASZ, Stanislaw

Testing the centrifugal compressor stator by the static method. Przegl naukowo-tech AGH no.4:41-45 '61.

1. Zaklad Pomp, Sprezarek i Wentylatorow, Akademia Gornicz-Hutnicza, Krakow.



P/034/60/000/007/001/003

Measurement of Linear and Angular Accelerations in Mechanical Works and Machines by Means of Tensiometric Acceleration Meters

lerations is based on the same principle, but here two gauges like the ones described above are mounted on a revolving axle (Fig. 4, 2) which may be connected with the shaft of the measured motor. Electrical connections run through the mercury commutator (3). The measured accelerations may amount to 0.1 - 5 g. The ratio between the inherent oscillations of the instrument and the measuring oscillations should amount to 8:10 (without damping), 2:3 (with damping). The gauge's own oscillation may not be smaller than 150 cycles, the range of temperature: -20 to +30°C. The formula for the computation is:

• C_{st} = $2E = 12 \frac{G \cdot L}{E \cdot b \cdot h_0^2}$ (1)

The symbols represent: C static sensitivity of the gauge in cm/cm at acceleration; E - surface distortion at the support base at 1 g acceleration. leration; G - Weight of the lead ballast; L - distance from the weight center to the point of attachment in cm; E - modulus of elasticity of Card 2/3

37.

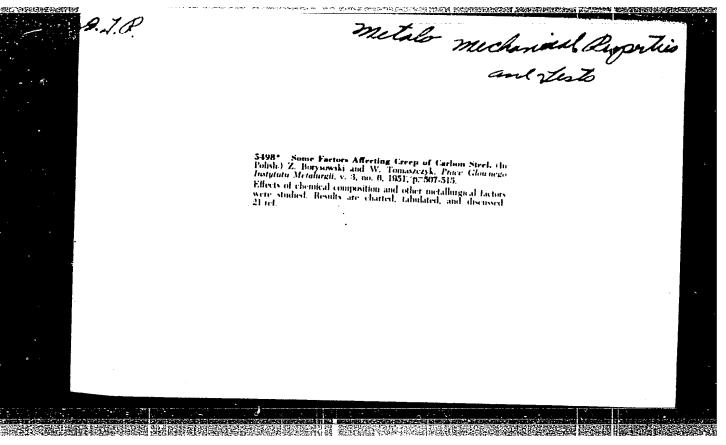
84455 P/034/60/000/007/001/003 A225/A026

Measurement of Linear and Angular Accelerations in Mechanical Works and Machines by Means of Tensiometric Acceleration Meters

support; b-width of support in cm; h - thickness of support in cm. Table 1 shows various parameters of the constructional elements. There are 11 figures, 1 table and 3 references: 1 Polish, 2 Soviet.

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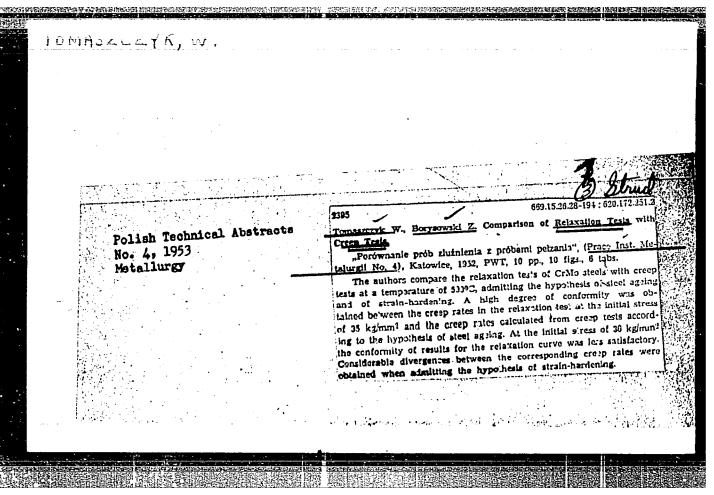
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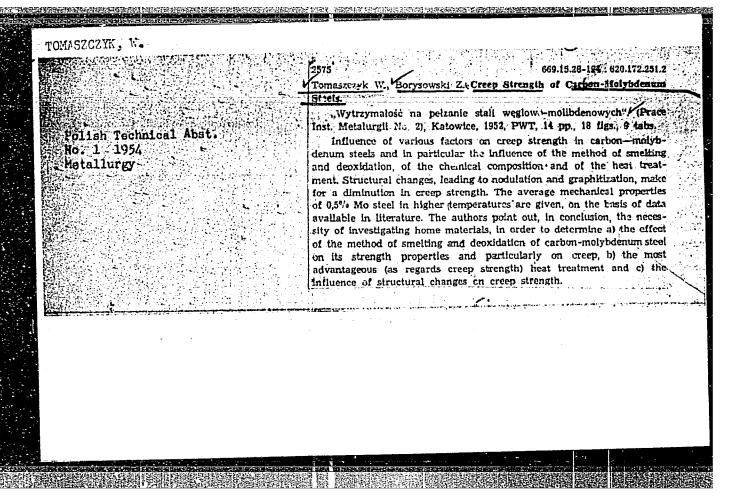
TOMASZCZYK W., Borysowski Z. Creep Strength of Low Alloy Chrome-Melybdenum Sicels. "Wytrzymałość na pelzanie niskostopowych stali chromowo-molibde-

"Wytrzymałość na pełzanie niskostopowych stali chromowo-molibdenowych". (Prace Inst. Metalurgii No. 3), Katowice, 1952, PWT, 9.5 pp., 10 figs., 12 tabs.

Polish Technical Abst. No. 1 1954 Metallurgy

The authors examine the results of creep strength tests on low alloy chrome-molybdenum steels, taking into account the deoxidising method, chemical composition and heat treatment of such sieels. The paper contains results of graphitisation investigations, with which as a basis it is possible to determine the minimum chrome content necessary to ensure structural stability in these steels. The authors drew up tables of the mechanical properties of low alloy chrome-molybdenum: steels at high temperatures, and give here the range of their application. Low alloy chrome-molybdenum steels are a good and cheap structural material for elements working at high temperatures, Steels of this group which contain 1% chrome are already, to a certain degree. resistant to corrosion and oxidation. Their resistance to the action of such factors increases with the increase in chrome content. Chrome--molybdenum steels with as little as 0.5% chrome content, are resistant to graphitization, the structural stability of such steels increasing with the increase in chrome content. The high creep resistance of steels with 0.5% Cr - 0.5% Mo, their resistance to graphitization, and then good technological properties (hot bending, weldability) make them a good structural material for superheater pipes up to the temporature of 535°C. The effect of chemical composition and heat treatment upon creep strength in low alloy chrome-molybdenum steels depends to: a large extent upon the structure obtained. In the higher temperature, range (above 550°C) ferritic-pearlitic or ferritic-bainitic structure is desirable; at lower and medium temperatures - the bainitic structure.



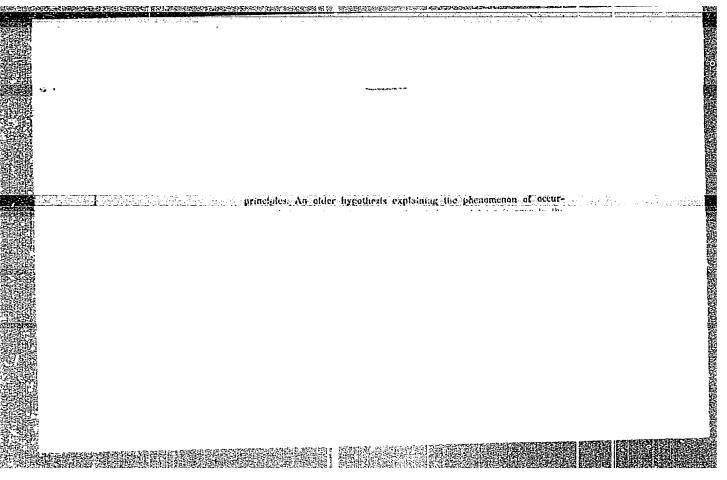


TOMASZCZYK, W.

"The Development of Metallurgy of Alloys Resistant to Weight in High Temperature." p. 148 (HUTNIK, Vol. 20, No. 4, Apr. 1953) Warszawa

30: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 19, October 1953. Unclassified.

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	Influence of the size of whin on the curvillity of steel. p. 193
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	so. PAST ETT. F. A. A.DESSE S ELS' 901. 5, no. 10, Cet. 1950

TOMASZCZYK, W.

Carbon steel P41K and its resistance to creeping! Piuletyn.

p. 35 Vol. 22, no. 9, Setp. 1955 HUTNIK Katowice

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 2 Feb. 1956

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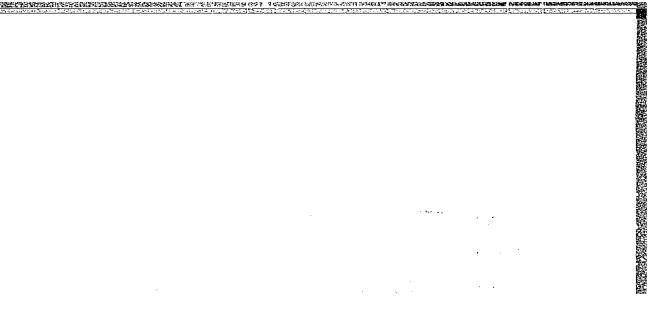
TCMASZCZYK, W.

TCMASZCZYK, W. A possibility of substituting long-time creep tests for the short-time ones. p. 459.

Vol. 23, no. 12, Dec. 1956 HUTNIK FOLITICAL SCHENCE Warszawa, Poland

So: East European Accession Vol. 4, No. 3, March 1957

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210013-5"



TOMASZCZYK, W.

Metallurgy; materials used in atomic-power plants. Pt. 1. p. 163. (HUTNIK. Katowice. Vol. 24, no. 4, Apr. 1957)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

TOMASZCZYK, W.
Cleavage plans. p. 74
(HUTNIK, VOI. 24, No. 2, Feb. 1957, Katowice, Poland)

SO: Monthly List of East European Accessions (ESAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

TOMASZCZYK, W.

The knowledge of metals; conclusions from a discussion on the mechanical characteristics of metal properties in technological conditions, p. 123. (Hutnik, Vol. 24, No. 3, Mar 1957, Katowice, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

NERLO, Henryk; ANDRZEJEWSKI, Jerzy; TOMASZEK, Barbara

Contamination of eye drops, with special consideration of drops containing antibiotics. Ann. Univ., Lublin sect.D 16:417-421 '61.

1. Z Katedry i Zakladu Farmacji Stosowanej Wydzialu Farmaceutycznego Akudemii Medycznej w Lublinie Kierownik: doc. dr farm. Henryk Nerlo. (SOLUTIONS OPHTHALMIC) (ANTIBIOTICS)

TOMASZENKO,R.

Correlation between coefficients of circulation on the sea

and on the level of 700 mb. In Russian. p. 52. Vol. 4, no. 1, 1956 Warszawa

ACTA GEOPHYSICA POLONICA

SOURCE:

East European Acession List (EEAL) Library of Congress

Vol. 5, no. 8, August 1956

21(8) AUTHOR:

Tomaszenko. Roman

POL/26-59-1-9/20

TITLE:

About Determining the Dates of Nuclear Explosions by Measurements of the Radioactivity of Atmospheric Pre-

cipitation

PERIODICAL:

Acta geophysica polonica, 1959, Nr 1, pp 55-63 (Poland)

ABSTRACT:

The author discusses the numerical and graphical determination of the date of the explosion in 2 cases of atmospheric precipitation. The measurements of the radioactivity were made at the Institute of Aerology at Legionowo. The starting point of the author's considerations is the known formula for the mixture of β -radioactive elements: At = Apt-k where At is the radio-

activity of the fissured products after lapse of time
-t from the moment of explosion; Ao is the radioactivity
at the moment of explosion; k is the power-exponent,
accepted always as 1.2. The author explains the dependence of the power-exponent k on the time passed since
collection of the precipitation. The results obtained

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POL/26-59-1-9/20

About Determining the Dates of Nuclear Explosions by Measurements of the Radioactivity of Atmospheric Precipitation

> are shown in the tables and are illustrated by graphs. The graphs indicate the possibility of using the graphic method (to simplify it we accept k = 1) for determination of the date of the nuclear explosion, approximately 20 days after collection of the precipitation. Of course the determination of the date of explosion by the graphic method is not exact. However, very often especially in cases of large increases in radioactivity in precipitation the graphic method is satisfactory and very convenient. There are 6 graphs and 2 tables.

ASSOCIATION: Zakład aerologii PIHM, Legionowo (Institute of Aerology of the "State Institute of Hydrology and Meteorology",

Legionowo)

November 6, 1958 SUBMITTED:

Card 2/2

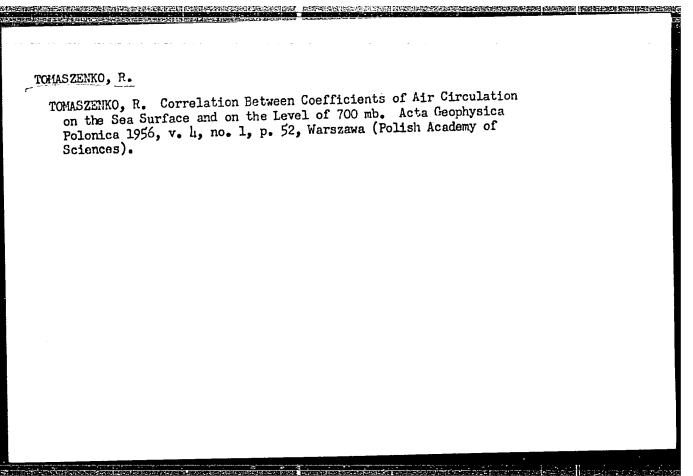
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TOMASZENKO, R.

On the determination of dates of nuclear explosions by measuring the radioactivity of atmospheric precipitation. p.55.

ACTA GEOPHYSICA POLONICA. Warszawa, Poland. Vol.7, no.1, 1959.

Monthly List of East European Accessions Index (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.



TOMASZENKO, R.

TOMASZENKO. R. Reasearches on the upper strata of the atmosphere during the 3rd International Geophysical Year. p. 6

Vol 9, no. 9, Sept. 1956 GACETA OBSERWATORA F.I.H.M. SCIENCE Warszawa, Poland

So: East European Accession vol 6, no. 3, March 1957

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210013-5"